

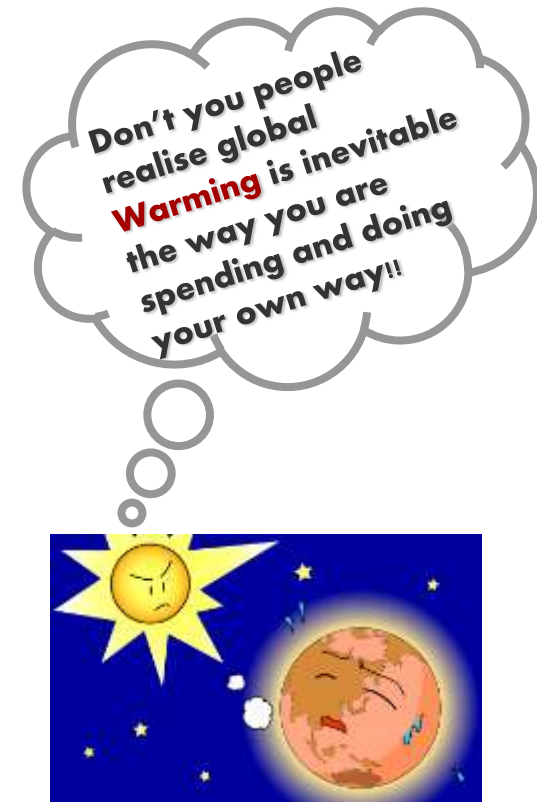


EnMS-Doc Associates

Company profile

Baseline ISO 50001

January 2014





Thank you so much for allowing us to introduce EnMS-Doc Associates



- **EnMS-Doc Associates is run by a sole principal, Nobby Yamanouchi**
- **Nobby Yamanouchi:
Energy management System (EnMS) specialist**
- **Our aim is to develop network and partnership to those believing in EnMS operation in realising energy efficiency in business operation**
- **We work with pride that EnMS forms a foundation of sustainability business development**
- **Our EnMS is based on ISO 50001 International Standard for EnMS**
- **EnMS-Doc Associates was founded in June 2011 at the same time when ISO 50001 was officially introduced**



Company Objectives (1):

- 1. To provide sustainability solutions by forming partnership with business operator who can provide technical as well as financial aspects in enhancing EnMS operation.**
- 2. To promote sustainable business development, in the context of “Climate Change” and “Corporate Social Responsibility”.**
- 3. To pursue profit gain for energy users by improving their energy performance.**
- 4. To provide information and consultancy to energy users in order to benefitting from operation with effective and efficient energy and environmental management system (EnMS and EMS).**



Company Objectives (2):

- 5. To become a practical advisor for the International Standard, Energy Management System, “ISO50001”.**
- 6. Create ISO50001 Class EnMS related documents to be used by energy users to implement competent EnMS operation.**
- 7. Develop network to enhance EnMS activities and documentation through www.enms-doc.com.**
- 8. To introduce EnMS related products and services to energy users on opportunistic basis**






Strategic Direction:

- 1. Continue our effort in promoting ISO 50001 class EnMS implementation in Southeast Asia (Singapore, Malaysia, Indonesia, Sri Lanka, etc.)**
- 2. Place attention in China and Japan being far ahead on ISO 14001 and ISO 9001 certification but very slow on ISO 50001.**
- 3. Keep close eyes on the growth mode demonstrated by African countries and how sustainability approach to be blended into the growth.**
- 4. Learn from Germany how EnMS, other sustainability related activities and incentive program resulting in a strong ISO 50001 certification situation.**
- 5. Learn from US SEP program initiative in verifying energy performance improvement in line with the ISO 50001 standard**



Current Activities:

**2010 - current: EnMS-Doc Associates
Operation Principal**

- ☐ **Associates Consultant, Energy Management System Specialist to Chiyoda System Technologies Corporation** 
- ☐ **Consulting activities to build up ISO 50001 Class Energy Management operation for energy user organisation.**
- ☐ **Develop and establish ISO 50001 Class documentation for energy user organisation for the EnMS operation.**
- ☐ **Consulting activities to implement energy monitoring system, procedure and saving verification practice best suited for energy user organisation EnMS operation**
- ☐ **Development of partnership to practice energy management expertise with energy user organisation.**
- ☐ **Producing e-Learning material for "Energy Manager Training" contracted by European Copper Institute.** 
- ☐ **EnMS "Guidebook & template in one" author for the EnMS related documentation in line with the ISO 50001 standard.**
- ☐ **Energy Management System lecturer under Sustainable Energy Association of Singapore (SEAS) under collaboration of National Environment Agency (NEA) of Singapore.** 
- ☐ **Business enhancement www.enms-doc.com website operation.**



ISO 50001 Class Energy Management Promotion Site



EnMS-Doc Associates to set up an activity base in Singapore

EnMS-Doc Associates setting up an activity base in Singapore

With the opportunities given by the success of April/May workshops in Singapore and Malaysia, EnMS-Doc Associates proudly announces its setting up of an activity base in Singapore as of 15 July 2013.

"It is a purely the rule of demand and supply just as energy balance" says nobby Yamanouchi, EnMS specialist representing EnMS-Doc Associates. Nobby intends to place more physical presence in Singapore after setting following the company strategic direction:

1. Responding to the intensive drive towards "Energy Efficiency" in Singapore
2. Continue our effort in promoting ISO 50001 class EnMS implementation in Asia (Singapore, Indonesia, Thailand Sri Lanka, etc.)
3. Singapore and Japan being far ahead in ISO 14001 and ISO 9001 certification but very slow in ISO 50001.
4. Keep close eyes on the growth mode demonstrated by African countries and how sustainability approach to be blended into the growth.

There are four main elements of significance in having physical presence in singapore:



ISO 50001 Energy Management System (EnMS) WORKSHOP



An encore EnMS Workshop in
Singapore 25-27 Sept.

ISO 50001 Document Provider



Our website
www.enms-doc.com



Business Partners:

- ❑ **Chiyoda System Technologies Corporation**  **CHIYODA SYSTEM TECHNOLOGIES CORPORATION**
<http://www.cst.chiyoda.co.jp/english/>
 - To provide sustainability solutions to business operators implementing EnMS operation
- ❑ **Millennium International Development Corporation** 
 - Business Development through Sustainability Fund Coordinator for African countries and other developing countries.
- ❑ **TEAM (Energy Auditing Agency Ltd., UK)** www.teamenergy.com 
 - EnMS Software partner in Japan, Malaysia, Canada and U.S.A.
- ❑ **European Copper Institute** <http://www.copperalliance.eu/>
 - EnMS related e-Learning partner
- ❑ **Aryan Behsa Co., Iran**  
 - Business partner in Iran
- ❑ **EeSolution Engineering, Malaysia** www.enms-doc.com/my 
 - Business partner in Malaysia
- ❑ **Siri Exergy And Carbon advisory Services (P) Ltd., India**
 - Business partner in India



Recent Accomplishment (1):

- 1. Creation of 52 modules e-Learning course material (in English) for “Energy Manager Training” organised by European Copper Institute. (Nov. 2013)**
- 2. Composition of “Energy Manager Training” e-Learning course syllabus for the training organiser European Copper Institute (Mar. 2013)**
- 3. Implementation of 3-day ISO 50001 Class EnMS Workshop for the purpose of EnMS Champion candidates (participants) to lead their organisation to achieve energy performance improvement by running effective EnMS operation.**
 - ☐ **Workshop #SG-2 - Singapore (27-29 September 2013)**
 - ☐ **Workshop #MY-2 - Kuala Lumpur, Malaysia (7-9 May 2013)**
 - ☐ **Workshop #SG-1 - Singapore (23-25 April 2013)**
 - ☐ **Workshop #MY-1 - Kuala Lumpur, Malaysia (25-27 Sept. 2012)**
- 4. Formation of Initial league of ISO 50001 Self-Declaration energy user union in Malaysia. (October-2012)**



**Energy Users League of
ISO 50001 Self-Declaration Malaysia**



Recent Accomplishment (2):

- 5. Create EnMS-Doc version of TEAM's wiki50001, Paperless EnMS Operation & Documentation under the collaboration of TEAM.
Japanese version (www.enms-doc-jp.wiki50001) -June 2013-
Asia-Pacific version (www.enms-doc-ap.wiki50001) -Sept. 2012-**
- 6. Official translation (Japanese to English) of "RENKEI Control Guidebook" commissioned by Green IT Promotional Council (GIPC) of its secretariat at Japan Electronics and Information Technologies Association (JEITA). (July-2012)
http://www.jeita.or.jp/english/public/data/RENKEI_Control.pdf**
- 7. Development and establishment of ISO 50001 Class EnMS Audit scorecard system in line with Superior Energy Performance program supported by the U.S. Council for Energy-Efficient Manufacturing (U.S. CEEM) .(April-2012)**
- 8. Establishment of ISO 50001 Class 12 key management documents (including EnMS Charter) ready to be adapted by energy user organisation. (English and Japanese, July-2011)**
- 9. Introduction of EnMS-Doc Associates web site:
www.enms-doc.com (June 2011)**



Some of ISO 50001 Class EnMS Consulting Ref.:

- **SETSCO Service Pte Ltd, Singapore [Testing & Lab]**
- **Hamada Shuzo Co., Ltd. [Shochu Distillery]**
- **Miyazaki Nokyo Kaju [Beverage & Bottling]**
- **Nissho Nipro Corporation Limited**
- **Ueno Fine Chemicals Industry (Thailand) Ltd.**
- **Siam GS Battery Co., Ltd.**
- **Thai Alliance Textile Co., Ltd.**
- **Ajinomoto Co., (Thailand) Ltd. – Kamphaeng Phet**
- **Luckytex (Thailand) Public Company Limited Mill No. 1**
- **Dusit Textile Co., Ltd.**
- **Erawan Textile Co., Ltd.**
- **Thai Kurabo Co., Ltd.**
- **Tostem Thai Co., Ltd.**



EnMS-Doc Associates Business Approach

We are not to engineer.

We work with energy users to enhance their EnMS operation in order to develop business through sustainability.

We learned that energy management integrates and enhances with the daily business practice with the following elements:

- ☐ **Reduces energy cost and carbon emission at no/low cost**
- ☐ **Optimises capital spending for sustainable business development**
- ☐ **Optimises use of available resources**
- ☐ **Enhances worker discipline and skill**
- ☐ **Improves operation efficiency and quality of business output**
- ☐ **Improves safety of operation as energy is often cause of accidents**
- ☐ **Provides proper procedures for BCP as business stands without energy**

EnMS together with ISO 50001 ensures energy performance improvement with its systematic approach for the operation.

Our mission is to disseminate the superiority of EnMS to energy users and working on a teamwork base to capitalise on the business opportunity.



EnMS-Doc Business Development through Sustainability Concept

Managing Energy for Sustainability





Business: All is about **ENERGY**

We receive energy,	produce energy, and...	to generate positive energy for clients
Electricity, gas, etc.	Business outputs	Conduct Business
Water	Products	Health & Safety
Air	Services	Efficiency
Food	Innovative ideas	Comfort
Materials	Technology	Performance improvement
Technology	Knowledge	Pleasure
Knowledge	Capital	Capital
Capital	Profit	Profit

Therefore business development through sustainability is about:

***Generating the highest quality business outputs
on account of the least energy use***



**In order to realise a true sustainability society,
following four elements have to work in hands...**

It is a MUST





EnMS-Doc Associates

This is what we do...

Expertise in organisation realising operational innovation
Namely, we consult and assist energy users to adapt
innovative operation to pursue continual energy
performance improvement

Energy management consulting and documentation

**Operational
Innovation**

We take the reverse approach...

**We help energy user to use energy the most efficient way and
ensure minimising wastes so that...**

Once they are competent in the best practice ...

**These three elements would stand up and perform to their
optimum design!!**

**Renewable
Energy**

**Green labeled
Product**

**Technological
Innovation**

**At the end, we are striving
towards the same theme:**

**Sustainability
Business
and
Life Style**



Our Tripod Core Business

Implementation of ISO 50001 class

EnMS

Operation within three (3) months

Sectoral scope:

Large and SME

Industrial

Continuous, Batch and discrete processes

Commercial

Public and private buildings

Residential

House, townhouse, condominium, etc.

Organizational scope:

From Top Management

All the way to working site and beyond (example: Supply chain)

ISO 50001 Class

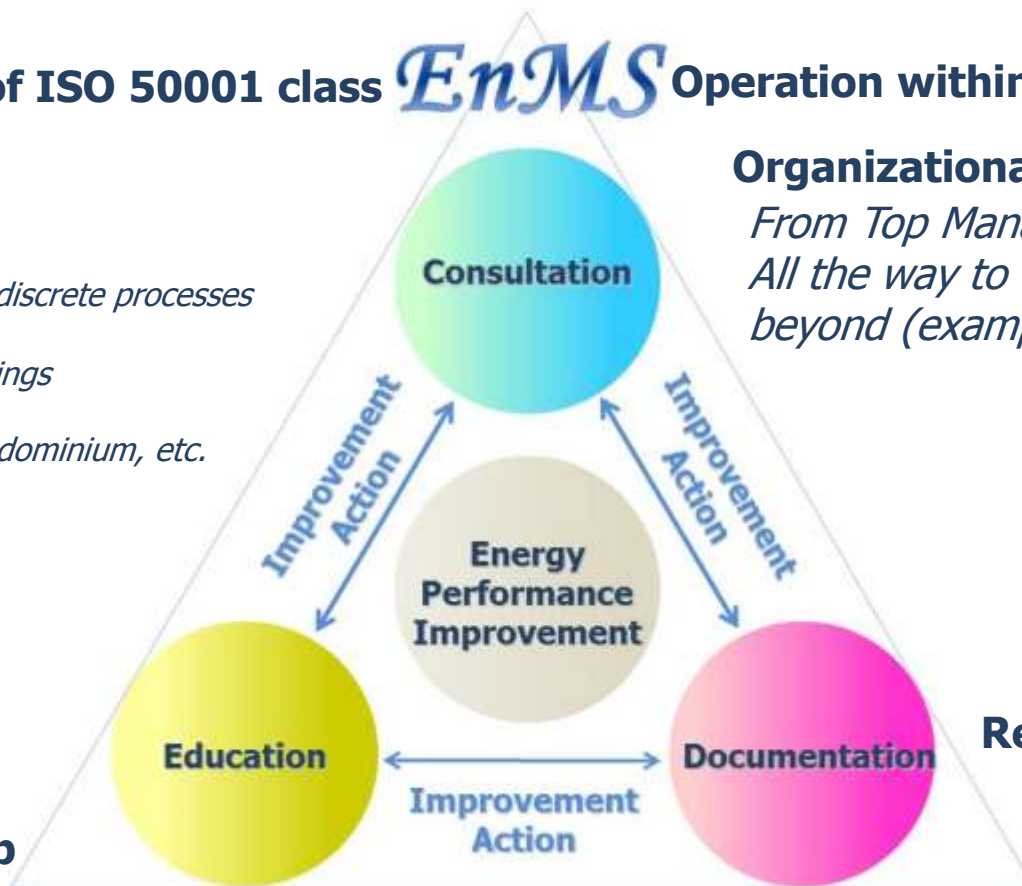
EnMS related:

Training

Workshop

Conference

Forum



Ready-to-use

ISO 50001 Class

Documents

Documents tailored to energy user organisation



Our **consultation does not end with
providing recommendations
We work with clients to come up with
solutions and action plan
We then follow through until the
clients get and satisfied with the result**



Taking the following consulting project as an example:

**“Guiding the organisation qualified to implement ISO 50001 class
EnMS operation in three (3) months”**

We will work with appointed energy manager :

- ☐ **Ensure top management declare energy policy and EnMS organisation is established**
- ☐ **Energy data analysis to understand energy situation and to identify EnPI**
- ☐ **Conduct energy review to come up with appropriate Energy Improvement action plan**
- ☐ **Implement EnMS operation for continual energy performance improvement action**
- ☐ **Conduct internal EnMS audit to full up any gaps exist**
- ☐ **Verify energy savings using defined EnPI and discuss in management review session for further improvement action**



Documentation

Our **documentation** approach is
Unique and innovative
We have ready-made ISO 50001 class
Key management documents enabling
to convert them into proprietary documents



The ready-made documents take enormous amount of burden (money and time) out of organisation creating from the scratch

Additionally, we can design, create ISO 50001 class documentation tailored to energy user organisation requirements



We can provide services related to
“**competence, training and awareness**”

Our programme focuses on
practical aspects using case studies

Our session is two-way communication,
Respecting participants business background

Visiting “**3-day ISO 50001 class EnMS Workshop**” conducted in Singapore (Apr.2013):



PUB team in action..



↑ Winston Tan, Assistant Manager, Energy Efficiency & Conservation Department, National Environment Agency Singapore (NEA) presents New Energy Conservation Act.

Testimonial: Mr. Nobby, it was pleasure to know you. Before attending the workshop, I was preparing myself for a boring 3-day training sessions as most of ISO related training were too theoretical. However to my surprise, your approach was totally anew and inspiring. Sample of documents were provided and focus were more on daily practices such as data analysis, etc.



European
Copper Institute

We are currently commissioned to take part in
e-Learning development in Europe:
Energy Manager Training

Organised by:

European Cooper Institute of Copper Alliance

<http://copperalliance.org/>

Under the collaboration of:

ISO (International Organization for Standardization)

<http://www.iso.org/iso/home.html>

and

EPRI (Electric Power Research Institute)

<http://www.epri.com/Pages/Default.aspx>

We were commissioned to develop a syllabus for the programme.

We expect to take part in the production of the training material,
and the 1st version is targeted at a large SME (Small Manufacturing
Enterprises), scheduled to be launched in early 2014.



Our strength...

Not only to provide recommendation...

We provide solution and follow through until...

Clients get expected result and satisfied





Our strength...

We are royal to **ISO 50001 EnMS:**

Continual Improvement Practice *in action*

We focus on practical solution rather than being theoretical

We dance "P_{lan}-D_o-C_{heck}-A_{ction} Process" to the waltz

P Generate innovative ideas and motivate yourself to put in motion

D Practice your innovative ideas
Cannot see unless you do
Failure is better than do nothing in EnMS

C Review what you have learned
Be humble
Assess and analyse your experience

A Improve for the best practice
Improvement Action
Preventive Action
Corrective Action





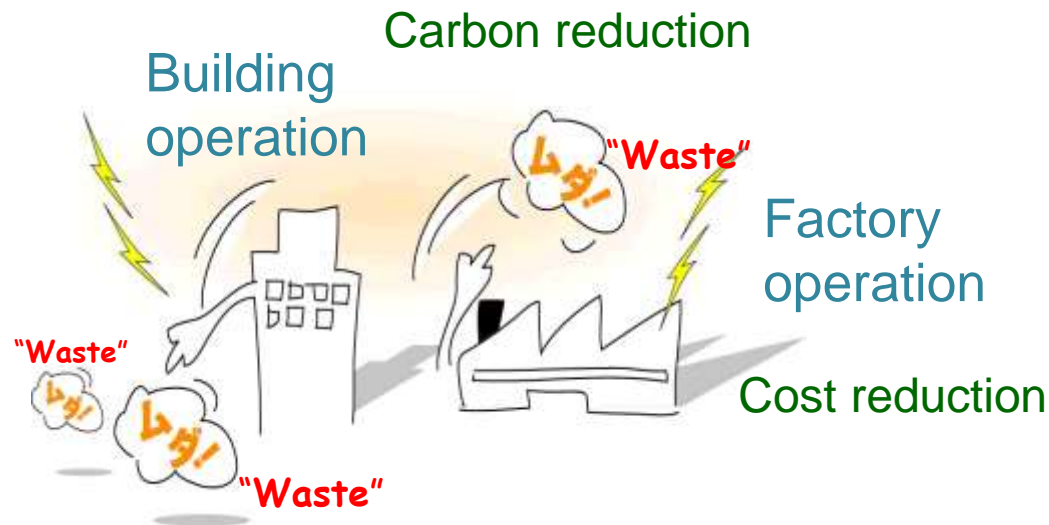
Our EnMS starts with “Waste” elimination...

With Waste Management, organisation can improve energy performance improvement with **no/very low capital spending**

Energy Performance Improvement **Solutions**

Energy “**WASTE**” keeps popping up...

If not properly managed





Top Management Responsibility

Continual Energy Performance Improvement

- 1. establish, document, implement, maintain and improve company's EnMS operation by taking leadership;**
- 2. define and document the scope and boundaries of its EnMS;**
- 3. determine what is the role and responsibility of the top management, determine and provide what resources required in order to achieve continual improvement of its energy performance and of its EnMS;**
- 4. Appoint "Energy Manager" as representing the top management to lead the EnMS operation.**



Business Development through Sustainability

Energy Manager Responsibility

Continual Energy Performance Improvement

- 1. Establish, document, implement, maintain and improve company's EnMS operation by taking leadership on behalf of the top management;**
- 2. Establish EnMS Operation Committee in line with the define and document the scope and boundaries and appoint members;**
- 3. Establish appropriate documentation;**
- 4. Implement "energy Review" and Identify ECO and EnPI**
- 5. Establish and implement the Monitoring & Targeting procedure using existing available sub-meters**
- 6. Implement EnMS operation based on the action plan established**
- 7. Exercise the gap analysis and improvement action for conformance**
- 8. Plan, prepare and implement the necessary EnMS training sessions**
- 9. Implement internal EnMS audit**
- 10. Implement identified continual energy improvement actions and maintain the operation level to "ISO 50001" class**



Fight with “WASTE” ! Tackle with “Energy Efficiency”

EnMS-Doc is at your service with the following outputs

Energy Monitoring

- Monitoring point investigation and recommendation
- Identify monitoring and action principle
- Identify optimum monitoring system concept and estimate investment / return
- Define EnMS-Monitoring & Action system and User Requirements Specification
- Monitoring system configuration with field measurement instruments integration
- Baseline and EnPI integration and procedural guidance

Energy Audit /Project Recommendation

- Energy Measurements
- Walk through audit
- Data analysis – practicality evaluation
- Financial / Economical ROI Analysis
- Project recommendation and guidance



EnMS operational review

- Availability screening and collection of necessary data
- Energy performance quantitative analysis
- Identifying baseline and energy performance indicator (EnPI)
- Identified energy conservation opportunity (ECO) from the operational aspects
- Identifying the communication need
- Identifying the training needs
- Lean Energy Procurement Review
- Documentation review
- EnMS Action review

Elements ensure that energy users obtain **solution**



Fight with **“WASTE”** ! Tackle with **“Energy Efficiency”**

EnMS-Doc is at your service with the following outputs

EnMS Documentation Assistance

- Provide EnMS related document
- Design, create EnMS relate documents tailored to clients' needs
- Review and revise existing documents for ISO 50001 compatibility
- Assist in implementing documentation management system

Project Management Support

- Procurement guideline assistance
- Development assistance of URS / RFQ
- Vendor selection advice
- Project evaluation

Building/Factory EnMS Consulting

- EnMS operation consulting
- LCA procurement and financial evaluation
- EnMS on Water

Lean Energy Education

- Seminar to motivate all workers
- Management Standard establishing guidance
- Specific Energy Consumption (SEC) Analysis Workshop
- Awareness & Motivation Program guidance
- Training, Workshop, Seminar to client needs

ISO 50001 performance over conformance

- Implementation of Energy Review
- Energy Planning & Implementation
- Project identification and implementation
- “Audit the auditors” concept
- ISO 50001 self-Declaration

Elements ensure that energy users obtain **solution**



EnMS-Doc Developed Software Tools

1. EnMS Audit Scorecard System

An excel base scorecard work sheet set to quantitative assess the Organisation's EnMS operation with a scale of 0-100. It enables audit activities to be efficient, effective and transparent.

2. EnPI " $y=ax+b$ " regression analysis tool

An excel base EnPI " $y=ax+b$ " regression analysis tool to identify baseline, targets and to verify energy saving results .

Joint development with TEAM UK (<http://www.teamenergy.com/>)



3. "wiki50001 Asia-Pacific" version

EnMS operating and documentation system is an online system using MediaWiki framework . The system interacts to the implementation of EnMS operation and documentation in line with the ISO 50001 guideline. Additional to the daily operation, the system act as powerful communication, training and auditing tool for effective and efficient implementation.



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